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The Trusted Integrator for Sustainable Solutions

REMOVAL SUPPORT TEAM 2 EPA CONTRACT EP-W-06-072

January 7, 2010

Mr. Cris D'Onofrio, On-Scene Coordinator U.S. Environmental Protection Agency – Region 2 Response and Prevention Branch 2890 Woodbridge Avenue Edison, NJ 08837

EPA CONTRACT NO: EP-W-06-072

TDD NO: TO-0013-0129

DOCUMENT CONTROL NO: RST 2-02-F-1232

SUBJECT: REMOVAL SITE ASSESSMENT SAMPLING TRIP REPORT – ALFRED

HELLER HEAT TREATING COMPANY SITE

Dear Mr. D'Onofrio:

Enclosed please find the Removal Site Assessment Sampling Trip Report for the sampling event conducted from December 9 through 17, 2009, at the Alfred Heller Heat Treating Company Site located in Clifton, Passaic County, New Jersey.

If you have any questions or comments, please do not hesitate to contact me at (732) 585-4440.

Sincerely,

Weston Solutions, Inc.

Sayed Iqbal

RST 2 Site Project Manager

Enclosure

cc:

TDD File: TO-0013-0129

REMOVAL SITE ASSESSMENT SAMPLING TRIP REPORT

SITE NAME:

Alfred Heller Heat Treating Company Site

DCN No.:

RST 2-02-F-1232

TDD No.:

TO-0013-0129

SAMPLING DATES:

December 9 through 17, 2009

EPA SITE I.D. NO.:

RS

1. Site Location:

Alfred Heller Heat Treating Company Site

5 Wellington Street

Clifton, Passaic County, New Jersey

Refer to Attachment A, Figure 1 - Site Location Map

2. Sample Descriptions: Refer to Attachment B, Tables 1A and 1B.

3. Laboratories Receiving Samples:

Analyses	Sample Media	Name and Address of Laboratory
Contract Laboratory Program (CLP) Organic Parameters: Volatile Organic Compounds (VOCs) via EPA Method TO-15	Air and Soil Gas	Atmospheric Analysis & Consulting, Inc. 1534 Eastman Avenue, Suite A Ventura, CA 93003 (805) 650-1642
CLP Organic Parameters: VOCs, Semi Volatile Organic Compounds (SVOCs), Polychlorinated Biphenyls (PCBs), Gas Range Organics (GRO), Diesel Range Organics (DRO), Oil Range Organics (ORO)	Surface Soil, Sub-Slab Soil, Aqueous Rinsate Blank	A4 Scientific 1544 Sawdust Road, Suite 505 The Woodlands, TX 77380 (281) 292-5277
CLP Inorganic Parameters: Target Analyte List (TAL) Metals including Mercury and Cyanide	Surface Soil, Sub-Slab Soil, Aqueous Rinsate Blank	Liberty Analytical Corporation 501 Madison Avenue Cary, NC 27513 (919) 379-4080
Non-CLP Inorganic Parameters: Hexavalent Chromium	Sub-Slab Soil, Aqueous Rinsate Blank	Chemtech 284 Sheffield Street Mountainside, NJ 07092 (908) 789-8900

4. Sample Dispatch Data:

On December 11, 2009, three air samples and five soil gas samples including two field duplicate samples (one for air and one for soil gas) were submitted for VOCs analyses via EPA Method TO-15 and were shipped by Removal Support Team 2 (RST 2) personnel to Atmospheric Analysis & Consulting, Inc. Samples were shipped via FedEx under the FedEx Airbill No. 8660 4365 7975.

On December 15, 2009, four surface soil and two sub-slab soil samples were submitted for CLP Organic Parameters; VOCs, SVOCs, PCBs, GRO, DRO, and ORO analyses and were shipped to A4 Scientific by RST 2 personnel via FedEx under FedEx Airbill No. 8660 4365 7200. Samples for CLP Inorganic Parameters; TAL Metals including Hg and Cyanide were shipped to Liberty Analytical Corporation by RST 2 personnel via FedEx under FedEx Airbill No. 8660 4365 7986.

On December 16, 2009, 14 sub-slab soil samples including two field duplicate samples, one rinsate blank sample, and two additional volumes for Matrix Spike and Matrix Spike Duplicate (MS/MSD) analysis were submitted for CLP Organic Parameters; VOCs, SVOCs, PCBs, GRO, DRO, and ORO analyses and were shipped to A4 Scientific by RST 2 personnel via FedEx under FedEx Airbill No. 8660 4365 7195. Samples for CLP Inorganic Parameters; TAL Metals including Hg and Cyanide were shipped to Liberty Analytical Corporation by RST 2 personnel via FedEx under FedEx Airbill No. 8660 4365 7184.

On December 17, 2009, 11 sub-slab soil samples were submitted for CLP Organic Parameters; VOCs, SVOCs, PCBs, GRO, DRO, and ORO analyses and were shipped to A4 Scientific by RST 2 personnel via FedEx under FedEx Airbill No. 8660 4365 7313. Samples for CLP Inorganic Parameters; TAL Metals including Hg and Cyanide were shipped to Liberty Analytical Corporation by RST 2 personnel via FedEx under FedEx Airbill No. 8660 4365 7997.

On December 16, 2009, six sub-slab soil samples including one field duplicate sample, one rinsate blank sample, and one additional volume for MS/MSD analysis were submitted for Non-CLP Inorganic Parameter; Hexavalent Chromium analysis and delivered to Chemtech via courier service.

On December 17, 2009, six sub-slab soil samples were submitted for Non-CLP Inorganic Parameter; Hexavalent Chromium analysis and delivered to Chemtech via courier service.

Attachment C includes copies of the Traffic Reports, Chain of Custody Records and Federal Express Airbills.

5. Personnel On Site:

<u>Name</u>	Representing	<u>Duties On-Site</u>
Cris D'Onofrio	US EPA Region II	On-Scene Coordinator
Kelli Lucarino	US EPA Region II	On-Scene Coordinator
Sayed Iqbal	RST 2	Site Project Manager, Field Coordinator,
•		Site QA/QC, Site H&S, Sample
		Management
Sandra Richards	RST 2	Sample Collection and Management
Joel Petty	RST 2	Sample Collection and Management
Sean Gavlas	RST 2	Sample Collection and Management
Jeffrey Jager	RST 2	Soil Gas Well Installation, Sample Location
		Map Preparation

6. Site Background:

The Alfred Heller Heat Treating Company is a former heat treating and zinc plating/conversion coating facility located at 5 Wellington Street in Clifton, NJ. The Site is located in a densely populated area of Clifton, consisting of a mix of residential and light industry.

The Site is approximately four acres in size and contains six contiguous buildings with an approximate floor space of 75,000 square feet. The buildings contained two zinc electroplating lines, one zinc phosphate conversion coating line, and approximately 30 heat treating furnaces of various sizes. Included in the heat treating furnaces were three austemper furnaces, two of which contained an approximate total of 170 tons of molten sodium nitrite/nitrate at the time of initiation of the Removal Action. Additionally, three of the heat treating furnaces contained approximately 2,000 gallons each of halogen-containing quench oils. Approximately 30,000 gallons of waste oil were contained both in the furnace reservoirs and in totes which were stored within the buildings. Trichloroethylene was used as a degreaser for some metal parts until the company switched to n-propyl bromide in the 1990s.

The Site also consists of two laboratories which contained various laboratory chemical containers including acids, bases, solvents and other chemicals. Approximately 596 drums of waste and/or product have been identified on-site since initiation of the Removal Action. Additionally, there were seven above-ground storage tanks and four underground storage tanks (USTs) located on the property. Some of the above-ground storage tanks have been removed from the Site.

7. Removal Site Assessment:

On December 9, 2009, EPA and RST 2 located and marked the following proposed multimedia sample locations: Two air sample locations, four sub-slab soil gas sample locations, three surface soil and 24 sub-slab soil sample locations. At the request of the EPA OSC two additional sample locations were later added; one surface soil sample location (AH-S-28) on December 15, 2009, and one sub-slab soil sample location (AH-B1-SS-23B) on December 17, 2009. After locating and marking of the proposed multimedia sample locations, RST 2 installed four sub-slab soil gas wells in and around the former TCE Degreaser area located within Building No. 1. Pre-drilling of the sub-slab soil gas wells and concrete slab cutting and removal activities were performed from December 9 through 17, 2009, by EPA's Emergency Rapid Response Services (ERRS) contractor.

Refer Attachment A, Figure 2 – Air and Soil Gas Sample Locations Map and Figure 3 – Surface and Sub-Slab Soil Sample Locations Map for more details.

Air and Soil Gas Sampling

Soil gas samples were collected using pre-cleaned stainless steel Summa canisters, fitted with 24-hour passive flow controllers calibrated by the laboratory. The Summa canisters provided were purged, cleaned, and prepared for sampling by an EPA CLP laboratory in accordance with EPA Method TO-15.

Pre-drilling of the sub-slab soil gas wells was performed by EPA's ERRS contractor using an electric Rotary Hammer Drill. The soil gas wells were drilled through the slab and several inches (less than one foot) into the sub-slab material. Following drilling activities, RST 2 used dedicated stainless steel tubing (approximately 12 inches long) at ¼ inch OD to install the wells into the borehole and attached the tubing to a Swagelok® female connector. Prior to installation into the borehole a small amount to modeling clay was placed around the stainless steel tube and the Swagelok® nut joint. After placing the completed probe into the borehole and flush with the surface of the slab, the space between the probe and the outside of the concrete was filled with anchoring cement mix and were allowed to cure for a period of 24-hours.

On December 10, 2009, RST 2 set up 6-liter Summa canisters with flow controllers adjusted to collect a sample over a 24-hour period. Air sampling was conducted at two locations, one outside of the office building (upwind sample) and one co-located (field duplicate) in the former TCE Degreaser area within Building No. 1. Sub-slab soil gas sampling was then conducted at four locations by connecting a length of 3/8 inch diameter Teflon tubing and attaching it to a Summa canister fitted with a flow controller adjusted to collect a sample over a 24-hour period. At sample location AH-SG-03, the Teflon tubing was connected to a "T" fitting to collect a field duplicate sample (AH-SG-04).

On December 11, 2009, RST 2 visited the Site and noted the vacuum gauges on the Summa

canisters which read between -0.5 and -8 inches of mercury. The regulator on each Summa canister was closed to prevent the possibility of reaching atmospheric pressure after the 24-hour sampling period. The Summa canisters were analyzed for VOCs via EPA Method TO-15.

Sample locations are depicted in Figure 2 – Air and Soil Gas Sample Location Map included as Attachment A and is depicted in the Photographic Log included as Attachment D.

Surface and Sub-Slab Soil Sampling

Surface and sub-slab soil sampling activities were conducted from December 9 through 17, 2009, and were collected from a total of 28 locations at the Site including from within site buildings, the unpaved area along the northeast property boundary and within the courtyard area, the loading dock and the courtyard located between Building Nos. 1 and 5. The subslab soil samples were collected after any concrete and/or paved surface was removed by ERRS personnel. Each sub-slab soil sample was collected at six inch intervals beneath the concrete slab, except for sample No.: AH-B1-SS-23 and a second sub-slab soil sample (No.: AH-B1-SS-23B) at the depth of 12 - 18 inches beneath the concrete slab. Surface soil sample from the unpaved areas were collected at 6" intervals after removing any vegetation and/or debris from the surface. Surface and Sub-slab soil samples (0-6") were collected using decontaminated plastic and/or stainless steel scoops, hand augers and/or a stainless steel core sampler, and the samples were transferred into a new, dedicated aluminum pie pan by using a new, dedicated plastic scoop. Samples were then homogenized by mixing thoroughly and placed into glass jars. VOC samples were collected as grab samples using EnCore® sampling devices. Three EnCore® devices were used at each location and were collected first prior to the soil sample being transferred into aluminum pie pans for homogenization. Rocks and other debris were removed prior to placing the sample into the jars. The stainless steel augers, scoops and core sampler were decontaminated prior to and between use. All samples were labeled, cooled to 4°C and stored in plastic coolers for As per OSC's request only one rinsate blank was collected by pouring Distilled/Deionized water over the decontaminated sampling equipment.

A Multi-RAE® was used each day during the surface and sub-slab soil sampling activities and was calibrated prior to each day's activities. All soil sample boreholes and sample allocates were screened for organic vapors using a calibrated MultiRAE. Except at four sample locations (AH-B5-SS-08, AH-B5-SS-12, AH-B5-SS-14, and AH-B5-SS-15), no readings above background were recorded. The organic vapor readings noted at the above mentioned sample locations were each 0.2 units above background. Each of the surface and sub-slab soil samples were analyzed for TCL VOCs, SVOCs, PCBs, GRO, DRO, ORO, TAL Metals and Cyanide. In addition, 12 sub-slab soil samples including one field duplicate collected from Building No. 5 and a rinsate blank were also submitted for hexavalent chromium analysis.

Sample locations are depicted in Figure 3 – Surface and Sub-Slab Soil Sample Locations Map included as Attachment A and are depicted in the photographic log included as

Attachment D.

8. Additional Comments:

At EPA's request, equipment used for sample collection was decontaminated using only laboratory grade detergent, potable water rinse, steam cleaning, and deionized water rinse. Also, instead of collecting a rinsate blank each day, at EPA's request, only one rinsate blank was collected during the soil sampling activities of December 15 through 17, 2009. Chain-of-Custody Records and Traffic Reports were generated using FORMs II Lite® and Scribe® software.

Date

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Sayed Iqbal

RST 2 Site Project Manager

Report reviewed by:

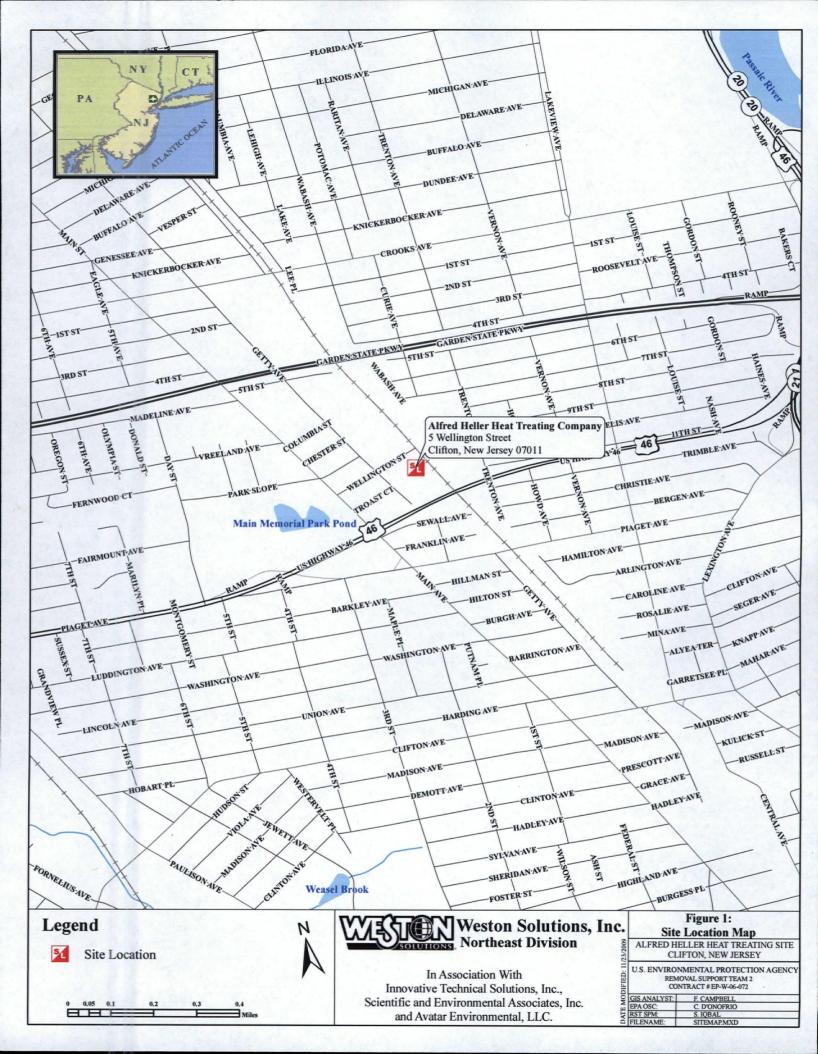
John Brennan

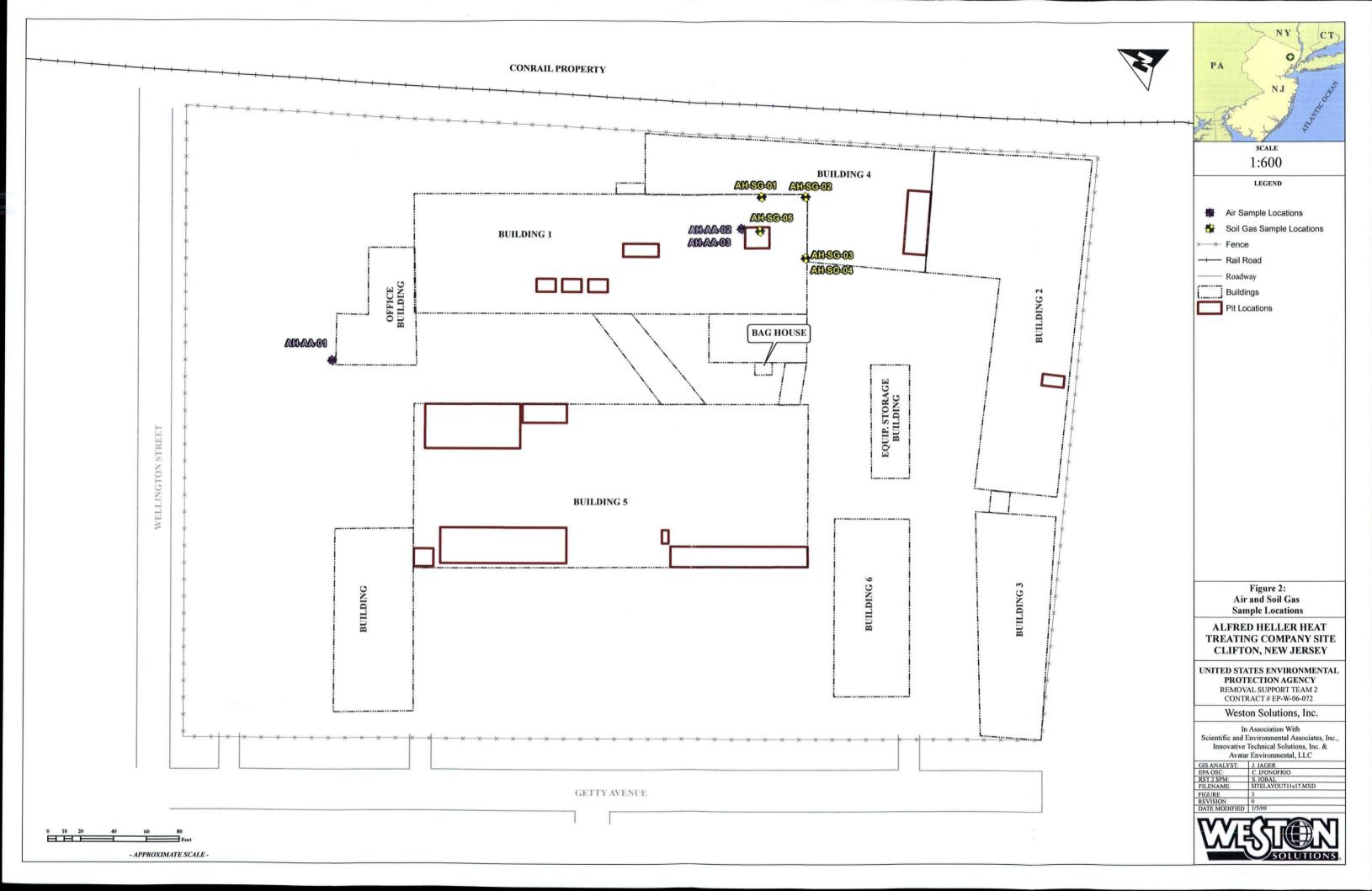
RST 2 Group Leader/HSO

ATTACHMENT A

Figure 1: Site Location Map

Figure 2: Air and Soil Gas Sample Locations Map
Figure 3: Surface and Sub-Slab Soil Sample Locations Map





CONRAIL PROPERTY SCALE 1:600 **BUILDING 4** AH-SH-SS-29 LEGEND Surface Soil Sample Locations AH-B1-SS-04 Sub-Slab Soil Sample Locations **BUILDING 1** AN-BI-SS-25 × Fence +-- Rail Road AH-B1-SS-02 AH-B1-SS-23B **₩ ™** ANHEA-SS-08 Roadway OFFICE BUILDING Buildings BUILDING 2 ALTHEO-55-00 AHLD-89-22 Pit Locations BAG HOUSE EQUIP. STORAGE BUILDING * ACHE2-53-07 AH-B5-88-21 AH-6Y -89-09 AH-B5-SS-20 WELLINGTON STREET AM-B5-SS-03 AH-B5-SS-30 **BUILDING 5** AH-B5-SS-05 AH-E5-SS-16 AH-B5-SS-18 AD-E5-55-13 AH-B5-SS-12 BUILDING 6 Figure 3: BUILDING 3 BUILDING Surface and Sub-Slab Soil Sample Locations ALFRED HELLER HEAT TREATING COMPANY SITE CLIFTON, NEW JERSEY UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REMOVAL SUPPORT TEAM 2 CONTRACT # EP-W-06-072 Weston Solutions, Inc. In Association With Scientific and Environmental Associates, Inc., Innovative Technical Solutions, Inc. & Avatar Environmental, LLC GETTY AVENUE - APPROXIMATE SCALE -





ATTACHMENT B

Table 1A: Air/Soil Gas Sample Collection Information
Table 1B: Surface and Sub-Slab Soil Sample Collection Information

Alfred Heller Heat Treating Company Site Clifton, New Jersey

Table 1A: Air/Soil Gas Sample Collection Information

RST 2 Sample ID	CLP Sample Number	Sample Matrix	Start Date	Start Time	End Date	End Time	Sample Duration	Analysis	QA/QC
AH-AA-01	B7LT1	Air	12/10/2009	1237	12/11/2009	1340	25 Hrs 3 Min	VOCs (TO-15)	-
AH-AA-02	B7LT2	Air	12/10/2009	1354	12/11/2009	1356	24 Hrs 2 Min	VOCs (TO-15)	-
AH-AA-03	B7LT3	Air	12/10/2009	1354	12/11/2009	1356	24 Hrs 2 Min	VOCs (TO-15)	Field Duplicate of AH-AA-02
AH-SG-01	B7LT4	Soil Gas	12/10/2009	1355	12/11/2009	1408	24 Hrs 13 Min	VOCs (TO-15)	-
AH-SG-02	B7LT5	Soil Gas	12/10/2009	1356	12/11/2009	1416	24 Hrs 20 Min	VOCs (TO-15)	-
AH-SG-03	B7LT6	Soil Gas	12/10/2009	1357	12/11/2009	1428	24 Hrs 31 Min	VOCs (TO-15)	-
AH-SG-04	B7LT7	Soil Gas	12/10/2009	1357	12/11/2009	1428	24 Hrs 31 Min	VOCs (TO-15)	Field Duplicate of AH-SG-03
AH-SG-05	B7LT8	Soil Gas	12/10/2009	1352	12/11/2009	1340	24 Hrs 43 Min	VOCs (TO-15)	-

Alfred Heller Heat Treating Company Site Clifton, New Jersey Table 1B: Surface Soil/Subslab Soil Sample Collection Information

RST 2 Sample ID	CLP Sample Number	Sample Date	Sample Time	VOCs	SVOCs	PCBs	DRO/ ORO/ GRO	TAL Metals and Cyanide	Hexavalent Chromium	QA/QC	Comments
AH-B1-SS-01	B7LX2/ MB7LX2	12/16/2009	1200	X.	x	x	х	х		•	Sub-slab soil sample. Soil was a clayey silt, dark brown in color. Odor of burnt oil detected. Cement was approximately 10 inches thick.
AH-B1-SS-02	B7LX3/ MB7LX3	12/16/2009	1215	X	х	х	Х	x		•	Sub-slab soil sample. Soil was a clayey silt, dark brown to tan in color. Very strong odor of burnt oil detected. Cement was approximately 10 inches thick. Oily consistency.
AH-B1-SS-03	B7LX4/ MB7LX4	12/16/2009	1230	X	Х	х	X	х	·	-	Sub-slab soil sample. Soil was a silty sand and was slightly oily with a tan clay layer near 6". Odor of burnt oil was detected in the clay layer. Cement was approximately 10 inches thick.
AH-B1-SS-04	B7LY0/ MB7LY0	12/17/2009	0855	X	х	X	X	X		-	Sub-slab soil sample. Soil was a sandy clay that was orange and brown in color with some large rocks/cobbles. Concrete was approximately 10 inches thick.
AH-B4-SS-05	B7LW7/ MB7LW7	12/16/2009	1025	X	х	x	х	X		- -	Sub-slab soil sample. Soil was a clayey silt, medium brown in color with some small rocks/gravels. Concrete was approximately 8 inches thick.
AH-B4-SS-06	B7LW8/ MB7LW8	12/16/2009	0935	х	х	х	X	X		MS/MSD	Sub-slab soil sample. Soil was a muddy clay, brown in color with some small rocks/gravels. Concrete was approximately 8 inches thick. A diesel odor was detected in the soils.

Alfred Heller Heat Treating Company Site Clifton, New Jersey

Table 1B: Surface Soil/Subslab Soil Sample Collection Information

RST 2 Sample ID	CLP Sample Number	Sample Date	Sample Time	VOCs	SVOCs	PCBs	DRO/ ORO/ GRO	TAL Metals and Cyanide	Hexavalent Chromium	QA/QC	Comments
AH-B2-SS-07	B7LY7/ MB7YL7	12/17/2009	1700	Х	Х	X	х	х		-	Sub-slab soil sample. Soil was a wet, light brown, oily clay with an organic odor. Concrete was approximately 8
AH-B5-SS-08	B7LW9/ MB7LW9	12/16/2009	1130	х	Х	х	Х	x	х	-	Sub-slab soil sample. Soil was a clay, silt, sand mixture, tan to brown in color. Organic vapor reading of 0.2 units. Concrete was approximately 5 inches thick.
AH-CY-SS-09	B7LW1/ MB7LW1	12/15/2009	1145	X	х	X	·X	X		-	Sub-slab soil sample. Soil was a gravel with silts and clays. Concrete was approximately 8 inches thick.
AH-CY-S-10	B7LW2/ MB7LW2	12/15/2009	1130	x	Х	x	X	х		-	Surface soil sample. Hard topsoil approximately 1 inch thick. Beneath was moist, clayey silt with dark brown soils and a tan clay layer.
AH-CY-S-11	B7LW3/ MB7LW3	12/15/2009	1120	Х	х	X	Х	Х		-	Surface soil sample. Soil was a clayey silt, dark brown in color with orange
AH-B5-SS-12	B7LX6/ MB7LX6	12/16/2009	1450	x	х	х	х	х	х	-	Sub-slab soil sample. Soil was a dry, silty clay dark brown in color with some small gravels. Organic vapor reading 0.2 units. Concrete was approximately6 inches thick.
AH-B5-SS-13	B7LY3/ MB7LY3	12/17/2009	0925	х	х	Х	Х	Х	х	-	Sub-slab soil sample. However, the slab was corroded away at the sample location. Soil was a sandy soil with black discoloration in brown soils.

Alfred Heller Heat Treating Company Site Clifton, New Jersey Table 1B: Surface Soil/Subslab Soil Sample Collection Information

RST 2 Sample ID	CLP Sample Number	Sample Date	Sample Time	VOCs	SVOCs	PCBs	DRO/ ORO/ GRO	TAL Metals and Cyanide	Hexavalent Chromium	QA/QC	Comments
AH-B5-SS-14	B7LX7/ MB7LX7	12/16/2009	1500	Х	x	X	х	х	X		Sub-slab soil sample. Soil was a silty clay. At approximately 6 inches below the slab, a soil layer of clay was found. Organic vapor reading 0.2 units.
AH-B5-SS-15	B7LX1/ MB7LX1	12/16/2009	1140	X	x	X	х	X	X _.	MS/MSD	Sub-slab soil sample. Soil was a silty sand, dark brown in color. Organic vapor reading 0.2 units. Concrete was approximately 10 inches thick.
AH-B5-SS-16	B7LX8/ MB7LX8	12/16/2009	1515	X	X	X	X	х	x	-	Sub-slab soil sample. Soil was a silty clay down to approximately three inches below the slab, below three inches a layer of clay was encountered. Concrete was approximately 5 inches thick.
AH-B5-SS-17	B7LY4/ MB7LY4	12/17/2009	0940	X	X	X	X	X	X	-	Sub-slab soil sample. Soil was a clayey silt. Concrete was approximately 5 inches thick.
AH-B5-SS-18	B7LY5/ MB7LY5	12/17/2009	0950	X	X	x	x	X	x	-	Sub-slab soil sample. Soil was poorly sorted dark brown sandy silt. A layer of black rocks resembling coal was located directly below the concrete. Concrete was approximately 8-10 inches thick.
AH-B5-SS-19	B7LY8/ MB7LY8	12/17/2009	1615	Х	х	Χ.	Х	X	х	-	Sub-slab soil sample. Sample location was wet, rocky, and oily. Soil was a clayey sandy silt, dark brown in color. Concrete was approximately 7 inches thick. A strong odor was detected.

Alfred Heller Heat Treating Company Site Clifton, New Jersey Table 1B: Surface Soil/Subslab Soil Sample Collection Information

RST 2 Sample ID	CLP Sample Number	Sample . Date	Sample Time	VOCs	SVOCs	PCBs	DRO/ ORO/ GRO	TAL Metals and Cyanide	Hexavalent Chromium	QA/QC	Comments
AH-B5-SS-20	B7LY9/ MB7LY9	12/17/2009	1630	х	х	Х	Х	Х	X	-	Sub-slab soil sample. Soil was a dark brown silty sand. The sample location was rocky and the top layer was wet. Concrete was approximately 12 inches.
AH-B5-SS-21	B7LZ0/ MB7LZ0	12/17/2009	1600	Х	Х	X	X	X	Х	-	Sub-slab soil sample. Soil was a black, silty soil. Concrete was approximately 8 inches thick.
AH-LD-SS-22	B7LW4/ MB7LW4	12/15/2009	1346	х	х	х	х	x		-	Sub-slab soil sample. Sample location was in a muddy area. Borehole was filled with water. Soil was a muddy, clayey silt, tan in color. Concrete was approximately 8 inches thick.
AH-B1-SS-23	B7LY1/ MB7LY1	12/17/2009	0845	X	X	X	X	х		-	Sub-slab soil sample. Soil was sandy and brown in color. Concrete was approximately 10 inches thick.
AH-B1-SS-23B	B7LY6/ MB7LY6	12/17/2009	1545	X	х	x	X	x		-	Sub-slab soil sample. Collected from a location that appeared to be filled with concrete below the original slab. Material was an amber colored plastic bead which smelt like burnt oil.
AH-B1-SS-24	B7LY2/ MB7LY2	12/17/2009	0900	X	X	X	Х	X		-	Sub-surface soil sample. Soil was sandy. Concrete was approximately 12 inches thick.
AH-B1-SS-25	B7LX9/ MB7LX9	12/16/2009	1630	Х	X	X	X	X		-	Sub-slab soil sample. Soil was a dry, silty sandy clay with some small rocks/gravels. Concrete was approximately 8 inches thick.

Alfred Heller Heat Treating Company Site

Clifton, New Jersey

Table 1B: Surface Soil/Subslab Soil Sample Collection Information

RST 2 Sample ID	CLP Sample Number	Sample Date	Sample Time	VOCs	SVOCs	PCBs	DRO/ ORO/ GRO	TAL Metals and Cyanide	Hexavalent Chromium	QA/QC	Comments .
AH-S-26	B7LT9/ MB7LT9	12/15/2009	1005	x	x	x	х	X		•	Surface soil sample. Sampled from the grassy area near Building No. 4. Soil was a clayey loam with gravel sized aggregate.
AH-SH-SS-27	B7LW5/ MB7W5	12/16/2009	0840	х	Х	х	х	х		-	Sub-slab soil sample. Soil was a dark, moist, clayey silt with some sand. Very little aggregate with some larger stones. Concrete was approximately 6 inches thick.
AH-S-28	B7LW0/ MB7LW0	12/15/2009	1100	x	X	x	X	X		•	Surface soil sample. Collected from the corner of the property at Wellington Rd. and the Conrail property. Soil was a loam clay mixture with gravel sized aggregate.
AH-SH-SS-29	B7LW6/ MB7LW6	12/16/2009	0845	x	Х	X	X	X		Field Duplicate of AH-SH- SS-27	None
AH-B5-SS-30	B7LX0/ MB7LX0	12/16/2009	1120	х	х	x	X	X	Х	Field Duplicate of AH-B5- SS-08	None
AH-RB-121609	B7LX5/ MB7LX5	12/16/2009	1530	X	Х	X	X	Х	X	Rinsate Blank	Rinsate Blank for 12/15 - 12/17/09

VOCs - Volatile Organic Compounds

SVOCs - Semi-Volatile Organic Compounds

PCBs - Polychlorinated Biphenyls

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

ORO - Oil Range Organics

TAL - Target Analyte List

MS/MSD - Matrix Spike/Matrix Spike Duplicate

ATTACHMENT C

Traffic Reports and Chain of Custody Records FedEx Airbills

8	EPA
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USEPA Contract Laboratory Program Organic Traffic Report & Chain of Custody Record

	Case No: DAS No:	90023		1
	SDG No:	- •		
/ .	For Lab Use C	nly		
(00	Lab Contract No:		· ·	

				am or custody R	ecora		SDG No:		
Date Shipped: Carrier Name: Airbill: Shipped to:	12/11/2009 FedEx 8660 4365 7975 Atmospheric Analy Consulting, Inc. 1534 Eastman Ave Suite A Ventura CA 93003 (805) 650-1642	enue	Chain of Custoo Relinquished By 1	(Date / Time) (Date / Time)	Sampler Signature: Received By Fast X 12	Bate / Time) 2/11/09/1600	For Lai	:	
ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLL DATE/TIME	_	INORGANIC SAMPLE No.	FOR LAB USE ONLY
B7LT1	Air/ Sayed Iqbal	M/G	VOA(TO-15) (21)	683 (Not preserved) (1)	AH-AA-01	S: 12/10/2009	12:37	SAMPLE NO.	Sample Condition On Receipt
B7LT2	Ąir/	M/G	VOA(TO-15) (21)	684 (Not presented) (1)	AH 44 00				•

ORGANIC	MATRIX/	CONC	ANALYSIS/			Unit	Price:	
SAMPLE No.	SAMPLER	TYPE	TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
B7LT1	Air/ Sayed Iqbal	M/G	VOA(TO-15) (21)	683 (Not preserved) (1)	AH-AA-01	S: 12/10/2009 12:3		Sample Condition on Receipt
B7LT2	Air/ Sayed Iqbal	M/G	VOA(TO-15) (21)	684 (Not preserved) (1)	AH-AA-02	S: 12/10/2009 13:54	4	
B7LT3	Air/ Sayed Iqbal	M/G	VOA(TO-15) (21)	685 (Not preserved) (1)	АН-АА-03	S: 12/10/2009 13:54	1	
B7LT4	Soil Gas/ Sayed Iqbal	M/G	VOA(TO-15) (21)	686 (Not preserved) (1)	AH-SG-01	S: 12/10/2009 13:55	5	
B7LT5	Soil Gas/ Sayed Iqbal	M/G	VOA(TO-15) (21)	687 (Not preserved) (1)	AH-SG-02	S: 12/10/2009 13:56	.	
B7LT6	Soil Gás/ Sayed Iqbal	M/G	VOA(TO-15) (21)	688 (Not preserved) (1)	AH-SG-03	S: 12/10/2009 13:57		
B7LT7	Soil Gas/ Sayed Iqbal	M/G	VOA(TO-15) (21)	689 (Not preserved) (1)	AH-SG-04	S: 12/10/2009 13:57		
B7LT8	Soil Gas/ Sayed Iqbal	M/G	VOA(TO-15) (21)	690 (Not preserved) (1)	AH-SG-05	S: 12/10/2009 13:52	•	•
and the second second								

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	T	
Combine th		Tanada (3).	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High		<u> </u>	
VOA(TO-15) = VOA by 7	O-15	Type resignate: Composite = C, Grab = C) 	Custody Seal Intact? Shipment iced?
TR Number: 6	0000		`	

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USEPA Contract Laboratory Program Organic Traffic Report & Chain of Custody Record

Case No:	39334	
DAS No:	,*	. 1
SDG No:	•	

Date Shipped:	12/15/2009		Chain of Custody	y Record	Sampler And all a		For 1	ab Use Only	
Carrier Name:	FedEx		Relinquished By	(Date / Time)	Signature Mount	(Date / Time)			
Airbiii:	8660 4365 7200	•	1 Saya Day	12/15/09/1700	FedEx 1		Lab Co	ntract No:	
Shipped to:	A4 Scientific 1544 Sawdust Road	4		1-7/3/01/1765	redex 1	2/15/09/170	Unit Pri	ce:	<u> </u>
•	Suite 505		2				Transfe	<u>.</u>	
	The Woodlands TX (281) 292-5277	77380	3				11 dilpie		
	(201) 292-3211		4				Lab Co	ntract No:	
00011110			<u> </u>				Unit Pri	ce:	
ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLL DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
B7LT9	Soil/	M/G	DRO/ORO (21), GRO	699 (Ice Only), 700 (Ice	AH-S-26	S: 12/15/2009	10:05	MB7LT9	
	Sandra Richards		(21), PCB (21), PER_MOI (21),	Only), 701 (Ice Only), 702		0. 1210/2003	10.03	MD/LI9	•
•	•		SVOCs (21), VOA	(Ice Only), 703 (Ice Only), 704 (Ice Only), 705 (Ice					,
B7LW0	•		(21)	Only) 706 (Ice Only) (8)				•	
DICAAO	Soil/ Sandra Richards	M/G	DRO/ORO (21), GRO (21), PCB (21),	708 (Ice Only), 709 (Ice	AH-S-28	S: 12/15/2009	11:00	MB7LW0	A40 .
			PER_MOI (21),	Only), 710 (Ice Only), 711 (Ice Only), 712 (Ice Only),	•				
	·		SVOCs (21), VOA	713 (Ice Only), 714 (Ice					
B7LW1	Soil/	M/G	(21) DBO/OBO (21) CBO	Only), 715 (Ice Only) (8)	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				•
— ;	Sandra Richards		(21), PCB (21),	717 (Ice Only), 718 (Ice Only), 719 (Ice Only), 720	AH-CY-SS-09	S: 12/15/2009	11:45	MB7LW1	
٠.		•	PER_MOI (21),	(ice Only), 721 (ice Only).					
			SVOCs (21), VOA	722 (Ice Only), 723 (Ice	,				,
B7LW2	Soil/	M/G	(21) DRO/ORO (21), GRO	Only), 724 (Ice Only) (8) 726 (Ice Only), 727 (Ice	ALL CV C 40				
•	Sandra Richards		(21), PCB (21),	Only), 728 (Ice Only), 729	AH-CY-S-10	S: 12/15/2009	11:30	MB7LW2	
			PER_MOI (21),	(Ice Only), 730 (Ice Only).					
			SVOCs (21), VOA (21)	731 (ice Only), 732 (ice Only), 733 (ice Only) (8)		•		•	
B7LW3	Soil/	M/G	DRO/ORO (21), GRO	735 (Ice Only), 736 (Ice	AH-CY-S-11	S: 12/15/2009	11:20	MOZUMO	
•	Sandra Richards		(21), PCB (21),	Only), 737 (Ice Only), 738		0. 12.13/2003	11.20	MB7LW3	
			PER_MOI (21), SVOCs (21), VOA	(Ice Only), 739 (Ice Only), 740 (Ice Only), 741 (Ice		•		~	
D71 1474	-		(21)	Only), 742 (Ice Only) (8)					
B7LW4	Soil/ Sandra Richards	M/G	DRO/ORO (21), GRO	744 (Ice Only), 745 (Ice	AH-LD-SS-22	S: 12/15/2009	13:46	MB7LW4	
	Centera racinardo		(21), PCB (21), PER_MOI (21),	Only), 746 (Ice Only), 747 (Ice Only), 748 (Ice Only),					
•			SVOCs (21), VOA	749 (Ice Only), 750 (Ice		,			
			(21)	Only), 751 (ice Only) (8)	•			•	•
Shipment for Case	Sample(s) to be	a used 4	or laboratory QC:						
Complete?N	Campic(s) to the	a nach in	i laboratory QC:	Additional Sampler	Signature(s):	Cooler Temperature	e	Chain of Custody Se	al Number:
			· .	KU//IL	W XX	Upon Receipt:		•	
Analysis Key:	Concentration	: L=L	.ow, M = Low/Medium, H = 1	High Type/Des					
DRO/ORO = DRO			MA 1862.0 GRO = GP	O by MA 1805.0, PCB = PC	gnate: Composite = C, Gr	ab = G		Custody Seal Intact?	Shipment Iced?
Volatiles	-			O D) WAY 1003.0, PCB = P(JBS (AROCEORS), PER	_MOI = Percent Moistu	re, SVO	Cs = CLP TCL Semi	volatiles. VOA = CLP TCL

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V	A

Date Shipped:

12/15/2009

USEPA Contract Laboratory Program Inorganic Traffic Report & Chain of Custody Record

Chain of Custody Record

Case No:	39334	,	
DAS No:			
SDG No:			L,

ı	Carrier Name:	FedEx		Chain of Custo	ay kecord	Signature Mara	listando	For La	b Use Only	7	
Carrier Name: Airbilt: Shipped to:		8660 4365 7986 Liberty Analytical Corporation 501 Madison Avenue Cary NC 27513 (919) 379-4080		Relinquished By (Date / Time) 1 San Sulf 12 /15 / Gl / 17 Corporation 501 Madison Avenue Cary NC 27513			Received By (Date / Time)		Lab Contract No: Unit Price: Transfer To: Lab Contract No:		
_	INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE Bottles	STATION LOCATION	SAMPLE COLL DATE/TIME		ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt	
-	MB7LT9	Soil/ Sandra Richards	M/G	ICP/MS/CN (21)	698 (Ice Only) (1)	AH-S-26	S: 12/15/2009	10:05	B7LT9		
	MB7LW0	Soil/ Sandra Richards	M/G	ICP/MS/CN (21)	707 (Ice Only) (1)	AH-S-28	S: 12/15/2009	11:00	B7LW0		
•	MB7LW1	Soil/ Sandra Richards	M/G	ICP/MS/CN (21)	716 (Ice Only) (1)	AH-CY-SS-09	S: 12/15/2009	11:45	B7LW1		
	MB7LW2	Soil/ Sandra Richards	M/G	ICP/MS/CN (21)	725 (Ice Only) (1)	AH-CY-S-10	S: 12/15/2009	11:30	B7LW2		
	MB7LW3	Soil/ Sandra Richards	M/G	ICP/MS/CN (21)	734 (Ice Only) (1)	AH-CY-S-11	S: 12/15/2009	11:20	B7LW3		
	MB7LW4	Soil/ Sandra Richards	M/G	ICP/MS/CN (21)	743 (Ice Only) (1)	AH-LD-SS-22	S: 12/15/2009	13:46	B7LW4		

Shipment for Case	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s)	la us				
Complete?N			Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:			
		Jew Jew	1	<u>'</u> .			
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Tomo/Decision (A)	<u> </u>				
ICP/MS/CN = CLP TAL	Total Metal (ICP) + Hg and Cya	Type/Designate: Composité = C, Grab = G	; 	Custody Seal Intact? Shipment iced?			
		•					

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Date Shipped:

Carrier Name:

Airbill:

12/16/2009

8660 4365 7184

FedEx

USEPA Contract Laboratory Program Inorganic Traffic Report & Chain of Custody Record

Chain of Custody Record

Relinquished By

Case No:	39334	
DAS No:		1.
SDG No:		

For Lab Use Only

Lab Contract No:

	Shipped to: Liberty Analytical Corporation 501 Madison Avenue Cary NC 27513 (919) 379-4080		2 3	12116 109 11933	FEREN 12	Unit Price: Transfer To: Lab Contract No:					
Ļ		 		4				Unit Pric	:e:		
	INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSISI TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLE DATE/TIME	ECT	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt	
	MB7LW5	Soil/ Sandra Richards	M/G	ICP/MS/CN (21)	752 (ice Only) (1)	AH-SH-SS-27	S: 12/16/2009	8:40	B7LW5		_
	MB7LW6	Soil/ Sandra Richards	M/G	ICP/MS/CN (21)	761 (Ice Only) (1)	AH-SH-SS-29	S: 12/16/2009	8:45	B7LW6		
	MB7LW7	Soil/ Sandra Richards	M/G	ICP/MS/CN (21)	770 (ice Only) (1)	AH-B4-SS-05	S: 12/16/2009	10:25	B7LW7		
	MB7LW8	Soil/ Sandra Richards	WG	ICP/MS/CN (21)	779 (Ice Only), 780 (Ice Only) (2)	AH-B4-SS-06	S: 12/16/2009	9:35	B7LW8	·	
	MB7LW9	Soil/ Sandra Richards	M/G	ICP/MS/CN (21)	794 (ice Only) (1)	AH-B5-SS-08	S: 12/16/2009	11:30	B7LW9		
	MB7LX0	Soil/ Sandra Richards	M/G	ICP/MS/CN (21)	803 (ice Only) (1)	AH-B5-SS-30	S: 12/16/2009	11:20	B7LX0		
	MB7LX1	Soii/ Sandra Richards	M/G	ICP/MS/CN (21)	812 (Ice Only), 813 (Ice Only) (2)	AH-B5-SS-15	S: 12/16/2009	11:40	B7LX1		
	-MB7LX2	Soil/ Sandra Richards	M/G	ICP/MS/CN (21)	825 (ice Only) (1)	AH-B1-SS-01	S: 12/16/2009	12:00	B7LX2		
	MB7LX3	Soil/ Sandra Richards	M/G	ICP/MS/CN (21)	834 (Ice Only) (1)	AH-B1-SS-02	S: 12/16/2009	12:15	B7LX3		
	MB7LX4	Soil/ Sandra Richards	M/G	ICP/MS/CN (21)	843 (ice Only) (1)	AH-B1-SS-03	S: 12/16/2009	12:30	B7LX4		
							·				

Sampler Signature My Markov

Received By

(Date / Time)

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature	Chain of Custody Seal Number:
	MB7LW8, MB7LX1	Joll 1Hy	Upon Receipt:	
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High			
CN = Cyanide, ICP/MS/	CN = CLP TAL Total Metal (ICP) + Hg and Cya, ICF	//		Custody Seal Intact? Shipment Iced?
	, , g = y= -g - q - y-	The motas/10F)+11g		

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USEPA Contract Laboratory Program Inorganic Traffic Report & Chain of Custody Record

Case No:	39334	
DAS No:		1
SDG No:	•	L

ı	Date Shipped:	12/46/2000	,					4		·
ł	Carrier Name:	12/16/2009 FedEx		Chain of Custod	ly Record	Sampler Signature	Olicham	For L	ab Use Only	
l	Airbill: Shipped to:	8660 4365 7184 Liberty Analytical		Relinquished By	(Date / 1 ime)	Received By	(Date / Time)	Lab Co	ntract No:	
ı		Corporation 501 Madison Avenu	JĒ	2	, , , , , , , , , , , , ,	TROCK 12	111/09 /1930		-	
Ì		Cary NC 27513 (919) 379-4080		3				Transfe		
L	·			4		·		!	ntract No:	
	INORGANIC	MATRIX/	CONC/	ANALYSIS/				Unit Pri	Ce:	•
_	SAMPLE No.	SAMPLER	TYPE	TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLL Date/time		ORGANIC SAMPLE No.	FOR LAB USE ONLY
	MB7LX5	Aqueous/ Sandra Richards	M/G	CN (21), ICP/MS/Hg (21)	852 (HNO3), 859 (NaOH) (2)	AH-RB-121609	S: 12/16/2009	15:30	B7LX5	Sample Condition On Receipt
	MB7LX6	Soil/ Sandra Richards	MG	ICP/MS/CN (21)	866 (Ice Only) (1)	AH-B5-SS-12	S: 12/16/2009	14:50	B7LX6	
	MB7LX7	Soil/ Sandra Richards	M/G	ICP/MS/CN (21)	875 (Ice Only) (1)	AH-B5-SS-14	S: 12/16/2009	15:00	B7LX7	
	MB7LX8	Soil/ Sandra Richards	MG	ICP/MS/CN (21)	884 (Ice Only) (1)	AH-B5-SS-16	S: 12/16/2009	15:15	B7LX8	
	MB7LX9	Soil/ Sandra Richards	M/G	ICP/MS/CN (21)	893 (Ice Only) (1)	AH-B1-SS-25	S: 12/16/2009	16:30	B7LX9	

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(b): /		
1 . ' ''	ARDTI MID ARDTI MA		Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High		·	
CN = Cyanide, ICP/MS/0	CN = CLP TAL Total Metal (ICP) + Hg and Cya, ICP	Type/Designate: Composite = C, Grab = G PMS/Hg = CLP TAL Metals/ICP)+Ho		Custody Seal Intact? Shipment iced?
TD Mumb on			•	

SEPA

USEPA Contract Laboratory Program Organic Traffic Report & Chain of Custody Record

Case No:	39334	
DAS No:	•	
 SDG No:	•	Ļ
For Lab Use C	Only	
Lab Contract No:		

	·			SDG No:
Date Shipped: Carrier Name:	12/16/2009 FedEx	Chain of Custody Record	Sampler Signature Andre Richards	For Lab Use Only
Airbill:	8660 4365 7195	(Date / Hime)	Received By (Date / Time)	Lab Contract No:
Shipped to:	A4 Scientific 1544 Sawdust Road	1 Spy Spel 12/16/09/1930	Fadex 12/16/09/1920	Unit Price:
	Suite 505 The Woodlands TX 77380	3		Transfer To:
	(281) 292-5277	4		Lab Contract No:
ORGANIC	MATRIX/ CONC/	ANALYSISI TAGNOL		Unit Price:

-	***************************************					Unit P	1ce:	
ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE O NLY Sample Condition On Receipt
B7LW5	Soil/ Sandra Richards	M/G	DRO/ORO (21), GRO (21), PCB (21), PER_MOI (21), SVOCs (21), VOA (21)	753 (Ice Only), 754 (Ice Only), 755 (Ice Only), 756 (Ice Only), 757 (Ice Only), 758 (Ice Only), 759 (Ice Only)	AH-SH-SS-27	S: 12/16/2009 8:40	MB7LW5	
B7LW6	Soil/ Sandra Richards	M/G	DRO/ORO (21), GRO (21), PCB (21), PER_MOI (21), SVOCs (21), VOA	Only), 760 (Ice Only) (8) 762 (Ice Only), 763 (Ice Only), 764 (Ice Only), 765 (Ice Only), 766 (Ice Only), 767 (Ice Only), 768 (Ice Only), 769 (Ice Only) (8)	AH-SH-SS-29	S: 12/16/2009 8:45	MB7LW6	
B7LW7	Soil/ Sandra Richards	M/G	DRO/ORO (21), GRO	771 (los Only), 772 (los Only), 773 (los Only), 774 (los Only), 774 (los Only), 775 (los Only), 776 (los Only), 777 (los Only), 778 (los Only), 8)	AH-B4-SS-05	S: 12/16/2009 10:25	MB7LW7	
B7LW8	Soil/ Sandra Richards	M/G	DRO/ORO (21), GRO (21), PCB (21), PER_MOI (21), SVOCs (21), VOA (21)	783 (Ice Only), 784 (Ice Only), 785 (Ice Only), 786 (Ice Only), 786 (Ice Only), 786 (Ice Only), 789 (Ice Only), 790 (Ice Only), 791 (Ice Only), 792 (Ice Only), 793 (Ice Only) (11)	AH-B4-SS-06	S: 12/16/2009 9:35	MB7LW8	
B7LW9	Soil/ Sandra Richards	₩G	DRO/ORO (21), GRO (21), PCB (21), PER_MOI (21), SVOCs (21), VOA	795 (ice Only), 796 (ice Only), 797 (ice Only), 798 (ice Only), 799 (ice Only), 800 (ice Only), 801 (ice Only), 802 (ice Only) (8)	AH-85-SS-08	S: 12/16/2009 11:30	MB7LW9	

Shipment for Case	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Townsel	
Complete?N	B7LW8, B7LX1		Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Distance: Composite = C Cost = C		
DRO/ORO = DRO by M	A 1787.1 and ORO by MA 1862.0, GRO = GRO by	MA 1805.0, PCB = PCBs (AROCLORS), PER_MOI	= Personal Maintaine Class	Custody Seal Intact? Shipment Iced?
TR Number:	000000000000000000000000000000000000000	TO TO TOO TO THE MOT	- Percent Moisture, SVO	Cs = CLP TCL Semivolatiles, VOA = CLP TCL

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USEPA Contract Laboratory Program Organic Traffic Report & Chain of Custody Record

Case No:	39334		
DAS No:			1
SDG No:		-	

Data Chiana	404400000						L		
Date Shipped: Carrier Name:	12/16/2009 FedEx		Chain of Custody	Record	Sampler Signature:	Michani	For La	b Use Only	
Airbiil:	8660 4365 7195		Relinquished By	(Date / Time)	Received By	(Date / Time)			
Shipped to:	A4 Scientific		1 Sager Gerl	12/16/09/1930	FAREX 1	2/16/09/1930	Lab Con	tract No:	
Chipped to:	1544 Şawdust Road	d	2	7 17 100	77467	716107 /1930	Unit Pric	:e:	
	Suite 505						Transfer	To:	
Ì	The Woodlands TX (281) 292-5277	77380	3			-			·
	(== 1, 4== 04.)		4				Lab Con	tract No:	
ORGANIC	MATRIX/	00000					Unit Pric	:e:	
SAMPLE No.	SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE Bottles	STATION LOCATION	SAMPLE COLLI DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
B7LX0	Soil/	M/G	DRO/ORO (21), GRO	804 (Ice Only), 805 (Ice	AH-B5-SS-30	S: 40/40/0000	4.4.6.		Campie Condition On REGIPE
	Sandra Richards		(21), PCB (21),	Only), 806 (ice Only), 807	A11-00-00-00	S: 12/16/2009	11:20	MB7LX0	
• .	•		PER_MOI (21), SVOCs (21), VOA	(Ice Only), 808 (Ice Only), 809 (Ice Only), 810 (Ice					•
D71 V4			(21)	Only), 811 (Ice Only) (8)					
B7LX1	Soil/ Sandra Richards	M/G	DRO/ORO (21), GRO	814 (Ice Only), 815 (Ice	AH-B5-SS-15	S: 12/16/2009	11:40	MB7LX1	
•	oundia ruonalus		(21), PCB (21), PER_MOI (21),	Only), 816 (Ice Only), 817 (Ice Only), 818 (Ice Only),	•	•			
			SVOCs (21), VOA	819 (ice Only), 820 (ice	• • •				
•			(21)	Only), 821 (ice Only), 822 (ice Only), 823 (ice Only),				•	
Dai vo	.			824 (Ice Only) (11)					•
B7LX2	Soil/ Sandra Richards	M/G	DRO/ORO (21), GRO	826 (ice Only), 827 (ice	AH-B1-SS-01	S: 12/16/2009	12:00	MB7LX2	
	Candia Michaids		(21), PCB (21), PER_MOI (21),	Only), 828 (Ice Only), 829 (Ice Only), 830 (Ice Only),	•	•			
			SVOCs (21), VOA	831 (Ice Only), 832 (Ice		•	•		
B7LX3	Soil/	M/G	(21) DRO/ORO (21), GRO	Only), 833 (Ice Only) (8) 835 (Ice Only), 836 (Ice	411.54.65.66		,		
	Sandra Richards	,-,	(21), PCB (21),	Only), 837 (Ice Only), 838	AH-B1-SS-02	S: 12/16/2009	12:15	MB7LX3	•
٠.	•		PER_MOI (21),	(ice Only), 839 (ice Only),	•				
			(21)	840 (Ice Only), 841 (Ice Only), 842 (Ice Only) (8)					
B7LX4	Soil/ Sandra Richards	M/G	DRO/ORO (21), GRO	844 (Ice Only), 845 (Ice	AH-B1-SS-03	S: 12/16/2009	12:30	MB7LX4	•
	Canula Nichards		(21), PCB (21), PER_MOI (21),	Only), 846 (Ice Only), 847 (Ice Only), 848 (Ice Only),			12.50	IVID/LX4	
	•			849 (Ice Only), 850 (Ice					•
And the second			(21)	Only), 851 (Ice Only) (8)					
	•			•					•

Shipment for Case	Sample(s) to be used for laboratory QC:	Additional Sympler Signature(s);		
Complete?N	B7LW8, B7LX1	Jel P. W.	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Purpour de la constante de la		
DRO/ORO = DRO by M	A 1787.1 and ORO by MA 1862.0, GRO = GRO by	MA 1805.0. PCB = PCBs (APOC) CDS: DED #401		Custody Seal Intact? Shipment Iced?
TD Manuals			= Percent Moisture, SVO	Cs = CLP TCL Semivolatiles, VOA = CLP TCL

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Date Shipped:

12/16/2009

USEPA Contract Laboratory Program Organic Traffic Report & Chain of Custody Record

Chain of Custody Record

Case No:	39334	
DAS No:		
SDG No:		

Carrier Name:	FedEx				Signature Landin	inhouse !	FOR LA	b Use Only	·
Airbiil:	8660 4365 7195	1	Relinquished By	(Date / Time)	Received By	(Date / Time)	Lab Con	ntract No:	
		1	1 (and Bed	12/16/09/193	FRACK INIE	6/09 /1930	1	•	
Shipped to:	A4 Scientific 1544 Sawdust Road	1	2		1-1-1	-1-1 1175	Unit Pric	:e:	
	Suite 505	1	2		· 		Transfer	'To:	
1	The Woodlands TX 7	77380	3						
Ţ	(281) 292-5277	1				And and	Lab Con	ntract No:	<u> </u>
			4		· · · · · · · · · · · · · · · · · · ·	<u> </u>	Unit Pric	:e:	
ORGANIC SAMPLE No.		CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLE DATE/TIME	ECT	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
B7LX5	Aqueous/	M/G	DRO/ORO (21), GRO	854 (Ice Only), 855 (Ice	AH-RB-121609	S: 12/16/2009	15:30	MB7LX5	
	Sandra Richards		(21), PCB (21),	Only), 856 (Ice Only), 857	*				-
	, -		SVOCs (21), VOA (21)	(Ice Only), 858 (Ice Only), 860 (HCL), 861 (HCL), 862	,			٠.	
				(HCL), 863 (HCL), 864	•				
p z i ve	Sail.			(HCL), 865 (Ice Only) (11)					
B7LX6	Soil/ Sandra Richards	M/G	UKO/DRO (21), GRO	867 (Ice Only), 868 (Ice	AH-B5-SS-12	S: 12/16/2009	14:50	MB7LX6	•
	Janua Tucharus			Only), 869 (Ice Only), 870 (Ice Only), 871 (Ice Only),			·		
		•		872 (Ice Only), 873 (Ice		•			
971 V7	e-iv	14.0	` (21)	Only), 874 (Ice Only) (8)					,
B7LX7	Soil/ Sandra Richards	M/G	URO/ORO (21), GRO	876 (Ice Only), 877 (Ice	AH-B5-SS-14	S: 12/16/2009	15:00	MB7LX7	
	Candle Filchelus			Only), 878 (Ice Only), 879 (Ice Only), 880 (Ice Only),					•
				881 (Ice Only), 882 (Ice					
D31 YA	S ant	Ac	(21)	Only), 883 (Ice Only) (8)		t		_	
B7LX8	Soil/ Sandra Richards	M/G	DRO/ORO (21), GRO	885 (Ice Only), 886 (Ice	AH-B5-SS-16	S: 12/16/2009	15:15	MB7LX8	
٠.	Salidia Richards			Only), 887 (Ice Only), 888 (Ice Only)			-	. —	
				(Ice Only), 889 (Ice Only), 890 (Ice Only), 891 (Ice					•
part see			(21)	Only), 892 (Ice Only) (8)					
B7LX9		M/G	DRO/ORO (21), GRO	894 (Ice Only), 895 (Ice	AH-B1-SS-25	S: 12/16/2009	16:30	MB7LX9	
	Sandra Richards			Only), 896 (Ice Only), 897		,		-: ·· ••	
				(Ice Only), 898 (Ice Only), 899 (Ice Only), 900 (Ice			•		
			(21)	Only), 901 (Ice Only) (8)		•			
	•			*** · (4:4) (0)		•			* .
			•						

Sampler /

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:	1	Cooler Temperature	Chain of Custody Seal Numb	Der:
	B7LW8, B7LX1	oel letter	Upon Receipt:	·	• .
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type Designate: Composite = C. Grab = G		Custody Seal Intact?	Shipment iced?
DRO/ORO = DRO by M/	A 1787 1 and ORO by MA 1862 0 GRO = GRO by	MA 1905 0 DOD - DOD- (4 DOO) DOD - TOTAL			- Cupment rout
Volatiles	A 1787.1 and ORO by MA 1862.0, GRO = GRO by	MIA 1005.U, PCB = PCBS (AROCLORS), PER_MOI	= Percent Moisture, SVO	Cs = CLP TCL Semivolatile	s, VOA = CLP TCL

LABORATORY

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USEPA Contract Laboratory Program Inorganic Traffic Report & Chain of Custody Record

Case No:	39334		
DAS No:		•	
SDG No:			

l .	Date Snipped: Carrier Name:	12/17/2009 FedEx		Chain of Custod	y Record	Signatures On the	Juchary	For La	b Use Only	· · · · · · · · · · · · · · · · · · ·
ł	Alrbili:	8660 4365 7997		Relinquished By	(Date / Time)	Received By	(Date / Time)	Lab Cor	stract No:	
ł	Shipped to:	Liberty Analytical		1 GAT 32	4 12/17/09/190	FEREX 12	117/09/1900	Unit Pri		
		Corporation 501 Madison Avenu	e	2			_	Transfe	r To:	
		Cary NC 27513 (919) 379-4080		3					tract No:	
L		· · · · · · · · · · · · · · · · · · ·		4				Unit Pri		<u> </u>
-	INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLL DATE/TIME		ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
	MB7LY0	Soil/ Sandra Richards	M/G	ICP/MS/CN (21)	902 (Ice Only) (1)	AH-B1-SS-04	S: 12/17/2009	8:55	B7LY0	
	MB7LY1	Soil/ Sandra Richards	M/G	ICP/MS/CN (21)	911 (ice Only) (1)	AH-B1-SS-23	S: 12/17/2009	8:45	B7LY1	
	MB7LY2	Soil/ Sandra Richards	M/G	ICP/MS/CN (21)	920 (Ice Only) (1)	AH-B1-SS-24	S: 12/17/2009	9:00	B7LY2	
٠.	MB7LY3	Soil/ Sandra Richards	M/G	ICP/MS/CN (21)	929 (Ice Only) (1)	AH-B5-SS-13	S: 12/17/2009	9:25	B7LY3	
	MB7LY4	Soil/ Sandra Richards	M/G	ICP/MS/CN (21)	938 (ice Only) (1)	AH-B5-SS-17	S: 12/17/2009	9:40	B7LY4	•
	MB7LY5	Soil/ Sandra Richards	M/G	ICP/MS/CN (21)	947 (Ice Only) (1)	AH-B5-SS-18	S: 12/17/2009	9:50	B7LY5	
	MB7LY6	Soil/ Sandra Richards	M/G	ICP/MS/CN (21)	956 (Ice Only) (1)	AH-B1-SS-23B	S: 12/17/2009	15:45	B7LY6	
•	MB7LY7	Soil/ Sandra Richards	M/G	ICP/MS/CN (21)	963 (Ice Only) (1)	AH-B2-SS-07	S: 12/17/2009	17:00	B7LY7	
	MB7LY8	Soil/ Sandra Richards	M/G	ICP/MS/CN (21)	972 (Ice Only) (1)	AH-B5-SS-19	S: 12/17/2009	16:15	B7LY8	
	MB7LY9	Soil/ Sandra Richards	M/G	ICP/MS/CN (21)	981 (Ice Only) (1)	AH-B5-SS-20	S: 12/17/2009	16:30	B7LY9	

Shipment for Cese Complete?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
Analysis Key: ICP/MS/CN = CLP TAL	Concentration: L = Low, M = Low/Medium, H = High Total Metal (ICP) + Hg and Cya		G	Custody Seal Intact? Shipment Iced?

LABORATORY

Inorganic Traffic Report & Chain of Custody Record								39334	
Date Shipped: Carrier Name:	12/17/2009 FedEx		Chain of Custod		Sampler Signature Aurola (lichards	For Lab Use C	nly	
Airbill:	8660 4365 7997		Relinquished By	(Date / Time)	Received By	(Date / Time)	Lab Contract No:		•
Shipped to:	Liberty Analytical Corporation		1 (Aya) Splast	12/17/09/1900	FeSEX 12/	17/9/190	Unit Price:		
	501 Madison Avenue Cary NC 27513	е	3				Transfer To:		-
	(919) 379-4080	<u>. </u>	4				Lab Contract No: Unit Price:		
INORGANIC SAMPLE No.	MATRIXI SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLL DATE/TIME	ECT ORGA		OR LAB USE ONLY Condition On Receipt
MB7LZ0	Soil/ Sandra Richards	M/G	ICP/MS/CN (21)	990 (ice Only) (1)	AH-B5-SS-21	S: 12/17/2009	16:00 B7LZ	Ó	

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:	r Temperature Receipt:	Chain of Custody Seal Number:
Analysis Key: ICP/MS/CN = CLP TAL	Concentration: L = Low, M = Low/Medium, H = High Total Metal (ICP) + Hg and Cya		Custody Seal Intact? Shipment Iced?

TR Number:

⊕ EPA	
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USEPA Contract Laboratory Program Organic Traffic Report & Chain of Custody Record

Case No:	39334	
DAS No:	•	1
SDG No:		

Date Shipped:	40/47/0000						SDG	No:	<u>L</u>
Carrier Name:	12/17/2009 FedEx		Chain of Custod	y Record	Sampler	7	Eou	lah Uas O. I	
Airbili:	8660 4365 7313		Reilinquished By	(Date / Time)	Signature / / / / / / / / / Received By	ichaigh_	FOF	Lab Use Only	
Shipped to:	A4 Scientific		1 answ	12/17/09/1900		(Date / Time)	Lab C	ontract No:	· · · · · · · · · · · · · · · · · · ·
	1544 Sawdust Roa	ad	2	Total Pipe	FRIEX 14	17/09/1900	Unit P	rice:	
	Suite 505				<u> </u>		l		
	The Woodlands T) (281) 292-5277	K //380	3				Trans	fer To:	
			4				Lab C	ontract No:	
ORGANIC	MATRIX/	CONC	ANALYSIS/			<u></u>	Unit P	rice:	
SAMPLE No.	SAMPLER	TYPE	TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLL		INORGANIC	FOR LAB USE ONLY
B7LY0	Soil/	M/G	DR0/0R0 (21) GR0			DATE/TIME		SAMPLE No.	Sample Condition On Receipt
	Sandra Richards		(21), PCB (21).	903 (Ice Only), 904 (Ice Only), 905 (Ice Only), 906	AH-B1-SS-04	S: 12/17/2009	8:55	MB7LY0	
			PER_MOI (21),	(ICO Only), 907 (Ice Only).	•	· 			
D71 W4			SVOCs (21), VOA (21)	908 (ice Only), 909 (ice Only), 910 (ice Only) (8)	•				
B7LY1	Soil/ Sandra Richards	M/G	DRO/ORO (21), GRO	912 (Ice Only), 913 (Ice	AH-B1-SS-23	O: 484888		- *	
	Candia Michards		(21), PCB (21), PER_MOI (21),	Only), 914 (Ice Only), 915	AI-01-33-23	S: 12/17/2009	8:45	MB7LY1	
•	•			(Ice Only), 916 (Ice Only), 917 (Ice Only), 918 (Ice					
B7LY2	Soil/	M/G	(21)	Only) Q10 (less Only) (0)	•			*.	,
	Sandra Richards	1411 G	DRO/ORO (21), GRO	921 (Ice Only), 922 (Ice	AH-B1-SS-24	S: 12/17/2009	9:00	MB7LY2	
	•		PER_MOI (21),	Only), 923 (Ice Only), 924 (Ice Only), 925 (Ice Only),	* *		0.00	(AID) [] Z	
_		,	3VOCS (21), VOA	926 (Ice Only), 927 (Ice		1 e			
B7LY3	Soil/	M/G	DRO/ORO (21), GRO	Only), 928 (Ice Only) (8) 930 (Ice Only), 931 (Ice	A11 DT DD 1-		٠.		
	Sandra Richards		(21), PCB (21),	Only), 932 (Ice Only), 933	AH-B5-SS-13	S: 12/17/2009	9:25	MB7LY3	
			FER_WOI (21),	(Ice Only), 934 (Ice Only), 935 (Ice Only), 936 (Ice					
B7LY4	Soil/	140	(21)	Only) 937 (Inc. Only) (a)	•			• .	
	Sandra Richards	M/G	DIO/ORO (21), GRU	939 (Ice Only), 940 (Ice	AH-B5-SS-17	S: 12/17/2009	9:40	. Lemma	
			PER_MOI (21). (Only), 941 (Ice Only), 942 (Ice Only), 943 (Ice Only),		J. 12 1172003	3.40	MB7LY4	•
			SVOCs (21), VOA	44 (Ice Only), 945 (Ice					•
B7LY5	Soil/	M/G	(21) DRO/ORO (21), GRO (21) PCR (21)	John DAR /les Osta (A)					
	Sandra Richards		(4 1), FUD (41). (Only), 950 (Ice Only), 951	AH-B5-SS-18	S: 12/17/2009	9:50	MB7LY5	
			" EN_INO! (21), (ice Only), 952 (Ice Only)	•		,		
* .			SVOCs (21), VOA 9	753 (Ice Only), 954 (Ice Only), 955 (Ice Only) (8)					,
ipment for Case				(ice Only) (8)					
Subjete SN	Sample(s) to be	used fo	r laboratory QC:	Additional Sampler S	anaturale)-				<u> </u>
	İ		·	JU U	1.10	Cooler Temperature Upon Receipt:	•	Chain of Custody Sea	il Number:
nalysis Key:	Concentration				184/1/400	19			
	WMA 1787 4 === C	L = L	ow, M = Low/Medium, H = H	by MA 1805.0, PCB = PCI	party: Composite = C. G.	ab = G		Custoda S	
olatiles	ייייי ניסוו משיי קיי	KU by I	WA 1862.0, GRO = GRO	by MA 1805.0. PCB = PCI	APOCLODO PER	- · ·		ousway seal intact?	Shipment Iced?

LABORATORY CO

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819: Phone 703/818-4200: Fax

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USEPA Contract Laboratory Program Organic Traffic Report & Chain of Custody Record

Case No:	39334		-
DAS No:	ı		ı
SDG No:			1

Carrier Name:	12/17/2009 FedEx		Chain of Custod	y Record	Sampler /	7	For I	ah Han Out	
Airbiii:	8660 4365 7313	,	Relinquished By	(Date / Time)	Signature: ////////////////////////////////////	(Date / Time)	4 .	ab Use Only	
- Shipped to:	A4 Scientific 1544 Sawdust Roa		1 Segra fly	12/12/09 (1900		109 /1900	F .	ntract No:	
	Suite 505		2				Unit Pri		
] .	The Woodlands TX (281) 292-5277	< 77380	3				Transfe		•
			4				1	ntract No:	
ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/	ANALYSIS! TURNAROUND	TAG No./ PRESERVATIVE Bottles	STATION LOCATION	SAMPLE COLL		INORGANIC	FOR LAB USE ONLY
B7LY6	Soil	M/G	DRO/ORO (21), GRO	957 (Ice Only), 958 (Ice		DATE/TIME		SAMPLE No.	Sample Condition On Receipt
	Sandra Richards		(21), PCB (21), SVOCs (21), VOA	Only), 959 (Ice Only), 960 (Ice Only), 961 (Ice Only)	AH-B1-SS-23B	S: 12/17/2009	15:45	MB7LY6	
B7LY7	Soil/ Sandra Richards	M/G	(21) DRO/ORO (21), GRO (21), PCB (21), PER_MOI (21), SVOCS (21), VOA	962 (Ice Only) (6) 964 (Ice Only), 965 (Ice Only), 966 (Ice Only), 967 (Ice Only), 968 (Ice Only),	AH-B2-SS-07	S: 12/17/2009	17:00	MB7LY7	
B7LY8	Soil/ Sandra Richards	M/G	(21) DRO/ORO (21), GRO (21), PCB (21), PER_MOI (21),	969 (ice Only), 970 (ice Only), 971 (ice Only) (8) 973 (ice Only), 974 (ice Only), 975 (ice Only), 976 (ice Only), 977 (ice Only),	AH-B5-SS-19	S: 12/17/2009	16:15	MB7LY8	
B7LY9	Soil/ Sandra Richards	M/G	DRO/ORO (21), GRO (21), PCB (21), PER_MOI (21),	978 (Ice Only), 979 (Ice Only), 980 (Ice Only) (8) 982 (Ice Only), 983 (Ice Only), 984 (Ice Only), 985 (Ice Only), 986 (Ice Only), 987 (Ice Only), 986 (Ice Only),	AH-B5-SS-20	S: 12/17/2009	16:30	MB7LY9	
B7LZ0	Soil/ Sandra Richards	M/G	(21) DRO/ORO (21), GRO (21), PCB (21), PER_MOI (21), SVOCs (21), VOA	987 (Ice Only), 988 (Ice Only), 989 (Ice Only) (8) 991 (Ice Only), 992 (Ice Only), 993 (Ice Only), 994 (Ice Only), 995 (Ice Only), 996 (Ice Only), 997 (Ice Only), 998 (Ice Only) (8)	AH-B5-SS-21	S: 12/17/2009	16:00	MB7LZ0	
,					,				
					•				
Shipment for Case	Sample(s) to be	e used for	laboratory QC:	Additional Samples			•		

Cooler Temperature Chain of Custody Seal Number: Upon Receipt: Analysis Key: Concentration: L = Low, M = Low/Medium, H = High DRO/ORO = DRO by MA 1787.1 and ORO by MA 1862.0, GRO = GRO by MA 1805.0, PCB = PCBs (AROCLORS), PER_MOI = Percent Moisture, SVOCs = CLP TCL Semivolatiles, VOA = CLP TCL

TR Number:

RPB

RST 2, Edison, NJ

EPA Contract Number: EP-W-06-072

PO#: 0069775 / RFP: 118

CHAIN OF CUSTODY RECORD

Site: Clifton, NJ Contact Name: Sayed Iqbal Contact Phone: 908-565-2989 No: RS/AHHT-12/16/09-0001

Lab: Chemtech Lab Phone: (908) 789 - 8900

Lab#	Sample #	Location	Analyses	Matrix	Collected	Numb	Container	Preservative	Sample Time	MS/MSD
<u>-</u>	AH-B5-SS-08	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/16/2009	1	8 oz jar	4 C	11:30	
	AH-B5-SS-12	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/16/2009	1	8 oz jar	4 C		N
	AH-B5-SS-14	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/16/2009		8 oz jar		14:50	N
	AH-B5-SS-15	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/16/2009	2		4 C	15:00	N
	AH-B5-SS-16	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/16/2009	- 4	8 oz jar	4 C	11:40	Y
	AH-B5-SS-30	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/16/2009	1	8 oz jar	4 C	15:15	N
	AH-RB-121609	Site	Hexavalent Chromium [Cr(VI)]	Water		1	8 oz jar	4 C	11:20	.N
			- I construction of the construction (CI(VI))	vvaler	12/16/2009	1	1L plastic	4 C	15:30	N
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Special Instructions			· · ·		1					
	•		•			` [CHAIN OF CU	STODY#		
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I for All	/ Stal	2166 A 111		 		- Tomiquisited I	Date Date	Received by	Date	Time

Items/Reason	Relinquished by	Date	Repeived by	Date	Time	Items/Reason	Relinquished By	D-4			
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RPB

RST 2, Edison, NJ

EPA Contract Number: EP-W-06-072

PO#: 0069775 / RFP: 118

CHAIN OF CUSTODY RECORD

Site: Clifton, NJ Contact Name: Sayed Iqbal

Contact Phone: (908) 565 - 2989

No: RS/AHHT-12/17/09-0002

Lab: Chemtech

Lab Phone: (908) 789 - 8900

Sample #	Location	Analyses	Matrix	Collected		Container	Preservative	Sample	MS/MSD
	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/17/2009			1.5		
AH-B5-SS-17	Building No. 5	Hexavalent Chromium [Cr(VI)]						1	N
AH-B5-SS-18	Building No. 5	Hexavalent Chromium (Cr(VI))			1				N
AH-B5-SS-19	Building No. 5				1-			09:50	N
AH-B5-SS-20					1		4 C	16:15	N
		Havevelort Charming [Cr(VI)]			1		4 C	16:30	N
	Delighting 160. U	riexavaient Chromium [Cr(VI)]	Soil	12/17/2009	1	8 oz jar	4 C	16:00	N
	 		-	/					
			-	-/-					
			 			-,-	+	/	1
				1			 	/_	
	/						+		
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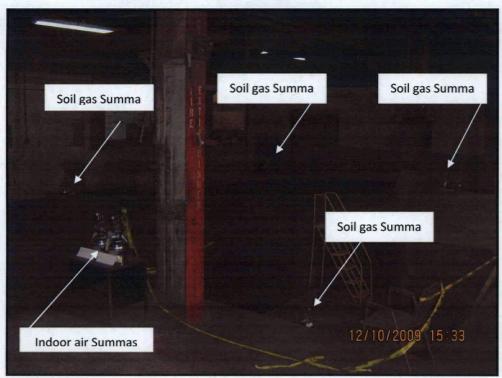
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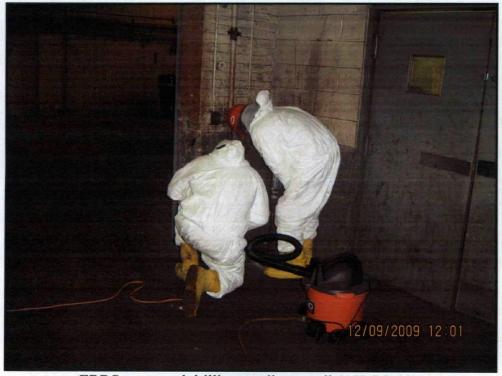
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View facing southeast in Building No.1, showing four soil-gas sample locations and one indoor air sample location.



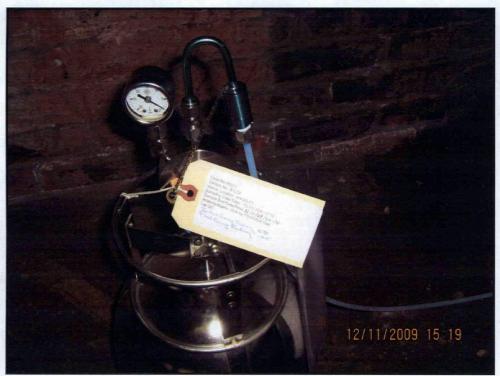
ERRS personnel drilling a soil gas well (AH-SG-02).



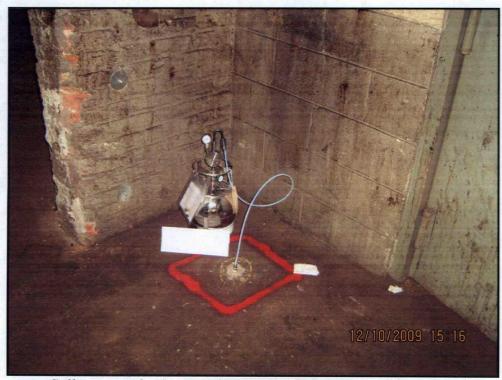
An installed soil gas well (AH-SG-05).



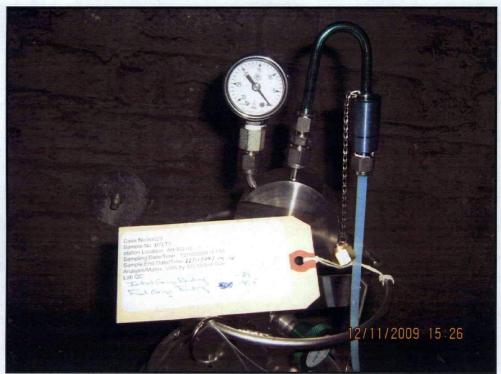
Soil gas sample No.: AH-SG-01, facing northeast in Building No. 1.



Soil gas sample No.: AH-SG-01, following the 24-hour sample period.



Soil gas sample No.: AH-SG-02, facing east in Building No. 1.



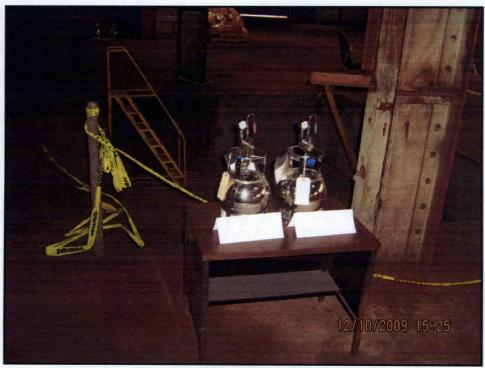
Soil gas sample No.: AH-SG-02, following the 24-hour sample period.



Soil gas sample No.: AH-SG-03 and duplicate sample No.: AH-SG-04, facing south southeast in Building No. 1.



Soil gas sample No.: AH-SG-05, facing northeast in Building No. 1.



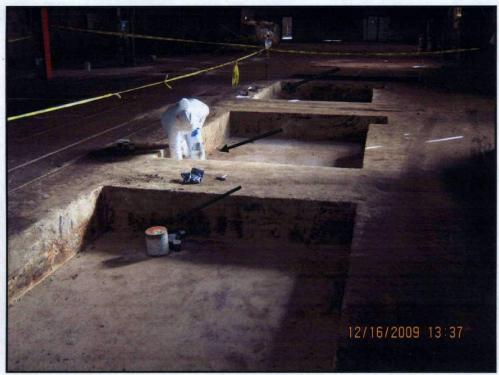
Indoor air sample No.: AH-AA-02 and duplicate sample No.: AH-AA-03, facing south southeast in Building No. 1.



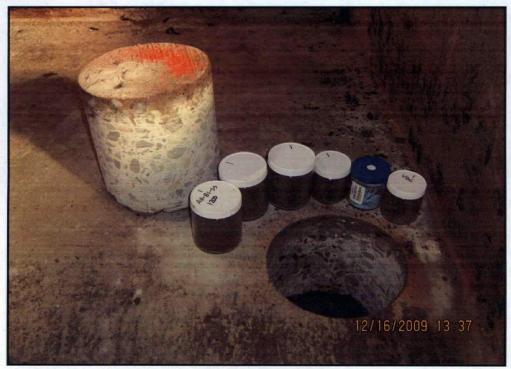
Ambient air sample No.: AH-AA-01, located outside of the office building.



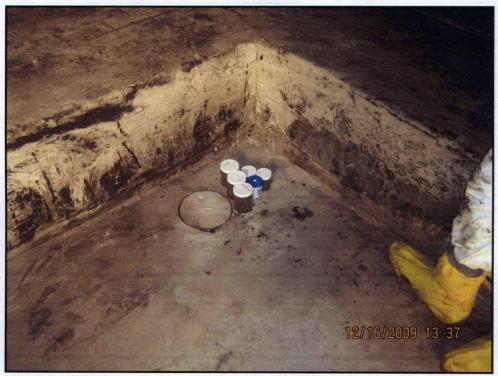
Due to high winds during the 24-hour sample period, it was necessary to secure the SUMMA canister at sample location No.: AH-AA-01.



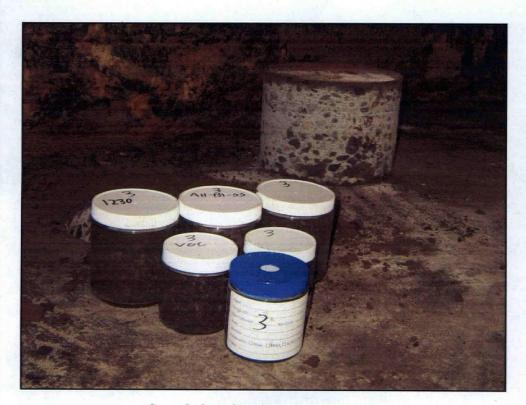
Sub-slab soil sample location Nos.: AH-B1-SS-01, AH-B1-SS-02, and AH-B1-SS-03 (From nearest to farthest).



Sample location No.: AH-B1-SS-01.



A view, facing northwest, of sample jars from sample No.: AH-B1-SS-02.



Sample location No.: AH-B1-SS-03.

Page 8 of 29



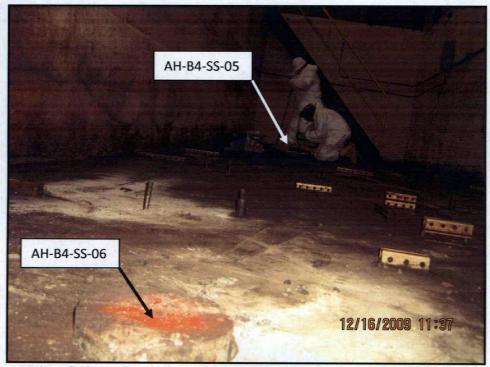
A view of the soil collected from sample location No.: AH-B1-SS-03.



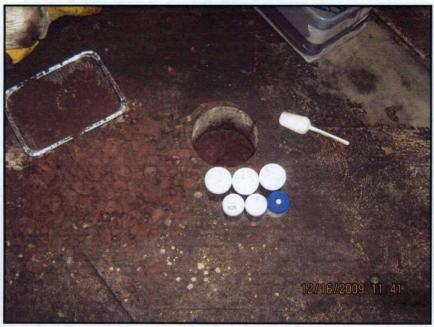
The sample jars and concrete slab core from sample location No.: AH-B1-SS-04.



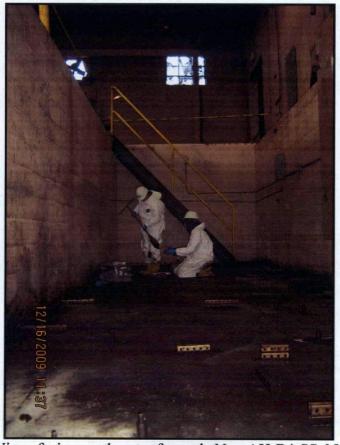
An overhead view of sample location No.: AH-B1-SS-04.



View facing northeast, of sample location No.: AH-B4-SS-05 in the background with sample location No.: AH-B4-SS-06 in the foreground.



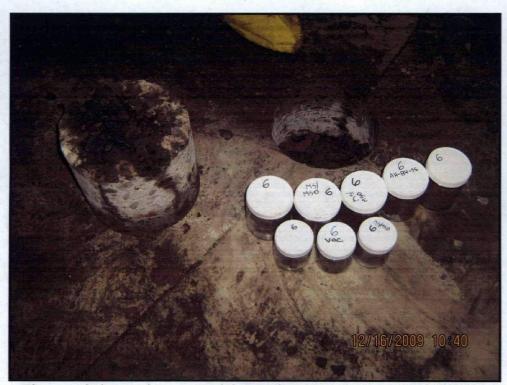
Sample jars from sample No.: AH-B4-SS-05.



View, facing northeast, of sample No.: AH-B4-SS-05.



The sample jars and concrete slab core from sample No.: AH-B4-SS-05.



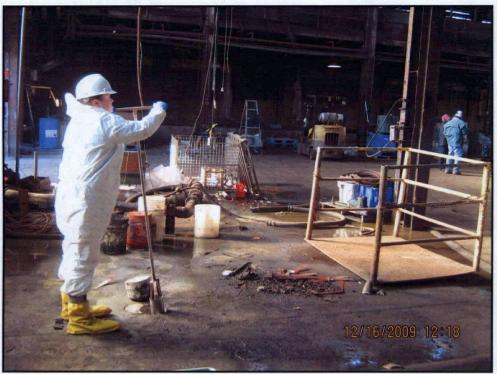
The sample jars and concrete slab core from sample No.: AH-B4-SS-06.



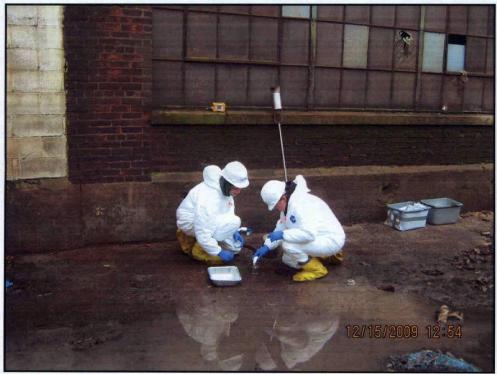
Overhead view of sample location No.: AH-B2-SS-07.



Sub-slab soil sample collected from sample location No.: AH-B2-SS-07.



A view, facing west, of sample location No.: AH-B5-SS-08 and duplicate sample No.: AH-B5-SS-30.



A view, facing west, of sample location No.: AH-CY-SS-09 in the courtyard.



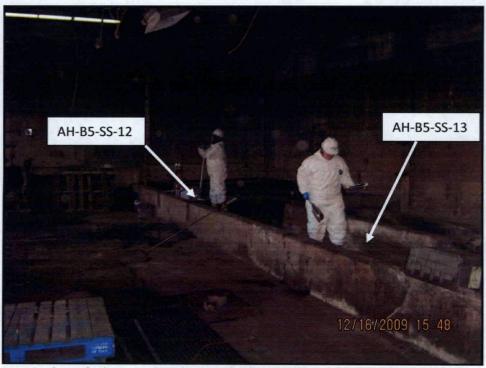
A view, facing north, of sample location No.: AH-CY-S-10 in the courtyard.



A photograph of the soils from sample location No.: AH-CY-S-10.



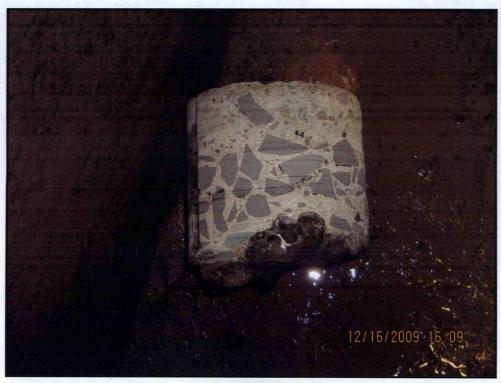
Sample jars from sample location No.: AH-CY-S-10.



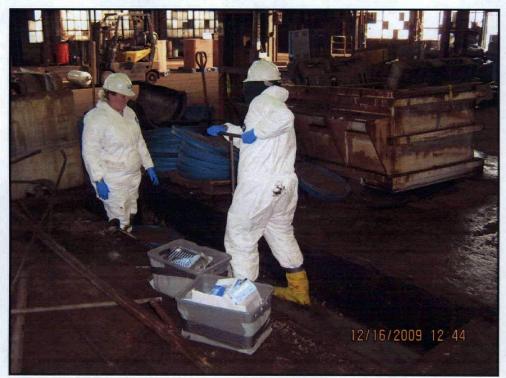
A view, facing south, of sample location No.: AH-B5-SS-12 in the background and sample location No.: AH-B5-SS-13 in the foreground.



View of sample location No.: AH-B5-SS-14.



Concrete slab core from sampling location No.: AH-B5-SS-14.



View, facing north, of sample location No.: AH-B5-SS-15.



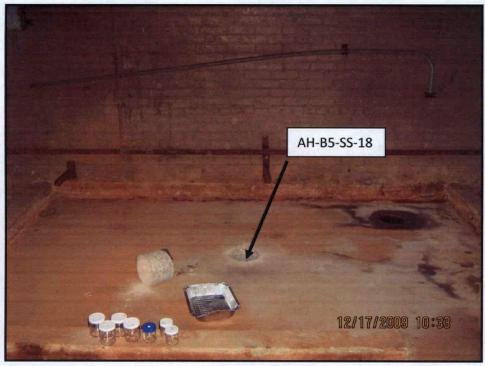
Concrete slab core and sample jars from sample location No.: AH-B5-SS-15.



View of sampling location No.: AH-B5-SS-16 surrounded by deteriorated concrete.



Concrete slab core and sample jars from sample location No.: AH-B5-SS-17.



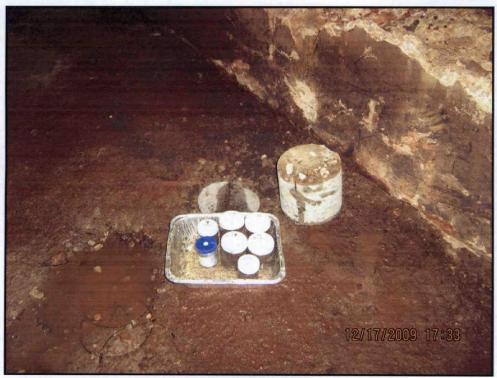
View, facing southwest of sample location No.: AH-B5-SS-18.



View of concrete slab core and sample jars from sample location No.: AH-B5-SS-18.



View, facing north, of sample location No.: AH-B5-SS-19.



Concrete slab core and sample jars from sample location No.: AH-B5-SS-19.



View, facing northwest, of sample location No.: AH-B5-SS-21.



View of sample collection using an auger and the concrete slab core at sample location No.: AH-B5-SS-21.



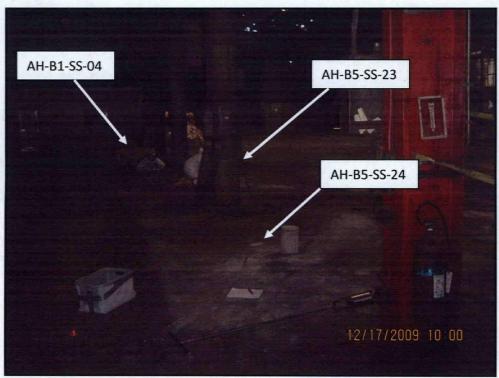
View, facing south southeast, of sample location No.: AH-LD-SS-22 in the loading dock area.



View of material extracted from sample location No.: AH-LD-SS-22.



View, facing north northwest, of sample jars from sample location No.: AH-LD-SS-22.



View, facing south, of sample location Nos.: AH-B1-SS-24, AH-B1-SS-23 and AH-B1-SS-04.



Concrete slab core and sample jars from sample location No.: AH-B1-SS-23.



View of RST 2 personnel collecting a sub-slab sample from sample location No.: AH-B1-SS-23B, using a GeoProbe[©] MacroCore and slide hammer.



A close-up view of the sample extracted from sample location No.: AH-B1-SS-23B.



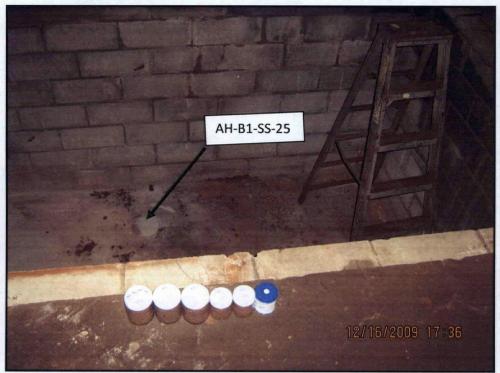
View of sandy soil collected from sample location No.: AH-B1-SS-24.



View of the concrete slab core and sample jars from sample location No.: AH-B1-SS-24.



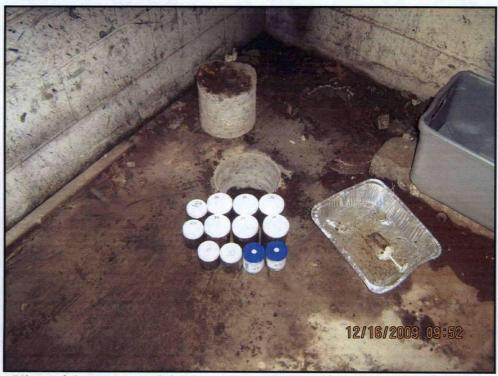
View of sample location No.: AH-B1-SS-25.



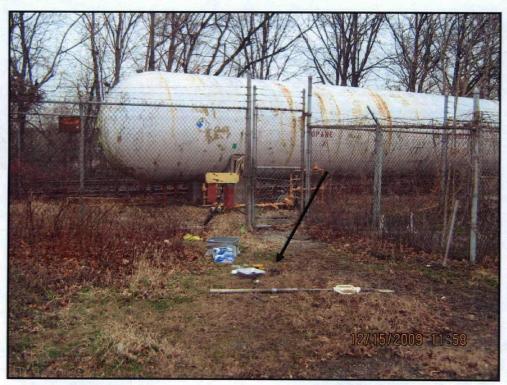
View of sample jars from sample location AH-B1-SS-25.



View of sample location No.: AH-S-26.



View of the concrete slab core and sample jars from sample location No.: AH-SH-SS-27 and duplicate sample No.: AH-SH-SS-29.



View, facing east of sample location No.: AH-S-28.